

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10594158"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/15 13:57
S2	5	US-242005D-\$.DID. OR US-20030074075-\$. DID. OR US-20030078579-\$.DID. OR WO-0121246-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/15 14:03
S3	2047	606/86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/15 14:06
S4	198	ferree-bret-a.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/15 14:07
S5	214	annulus repair	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/15 14:08

# EAST Search History (Prior Art)

S6	338	("1388547"   "1442051"   "1630239"   "20010049527"   "20020016583"   "20020016604"   "20020026244"   "20020032444"   "20020032447"   "20020055745"   "20020068974"   "20020068975"   "20020077632"   "20020077700"   "20020082598"   "20020082699"   "20020087163"   "20020095154"   "20020099384"   "20020107573"   "20020147485"   "20020147496"   "20020147497"   "20020151979"   "20020156531"   "20020165542"   "20020165612"   "20020173796"   "20020173851"   "20020188292"   "20020188299"   "20030023311"   "20030033017"   "20030083668"   "20030083688"   "20030158556"   "20030158557"   "20030191474"   "20030195518"   "20030195628"   "20030195630"   "20030204189"   "20030220649"   "20040010317"   "20040024465"   "20040030392"   "20040034429"   "20040044412"   "20040097924"   "20040215343"   "20040220577"   "20040267269"   "20050004593"   "20050010297"   "20050027358"   "20050038438"   "20050070908"   "20050113919"   "20050113928"   "20050113929"   "20050137601"   "20050137602"   "20050137604"   "20050137605"   "20050137607"   "20050137612"   "20050149034"   "20050149049"   "20050149191"   "20050165406"   "20050177117"   "20050229420"   "20050257660"   "20050261695"   "20060058800"   "20060079898"   "20060155297"   "20060206209"   "20060264957"   "20070010717"   "20070055260"   "20070066977"   "20070093847"   "20070112351"   "20070167951"   "20070168036"   "20070233099"   "20070233260"   "20070260270"   "20070265652"   "20080004707"   "20080065076"   "20080065080"   "20080065092").PN. OR ("20080065093"   "20080065094"   "20080071278"   "20080071282"   "20080097452"   "20080154275"   "20080188895"   "20080262502"   "20080262555"   "2336338"   "3367326"   "3454006"   "3554192"   "3788320"   "3875595"   "3892232"   "4046144"   "4135506"   "4175555"   "4265231"   "4309777"   "4349921"   "4518383"   "4541423"   "4545374"   "4573448"   "4609370"   "4636217"   "4650466"   "4657550"   "4756649"   "4844088"   "4858601"   "4862891"   "4904260"   "4966604"   "5022222"   "5022222"   "5022222"   "5022222"   "5022222"   "5022222"	US-PGPUB; ADJ USPAT; USOCR	ON	2009/09/15 14:38
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## EAST Search History (Prior Art)

S7	65	("20010010018"   "20010021874"   "20010034551"   "20010041933"   "20010049557"   "20010049558"   "20020169503"   "20030045929"   "20030125715"   "3966401"   "4050893"   "4164046"   "4182446"   "4917698"   "5011481"   "5041130"   "5061277"   "5104407"   "5201880"   "5258021"   "5290300"   "5306296"   "5350420"   "5376112"   "5496336"   "5522884"   "5593424"   "5601576"   "5607471"   "5669919"   "5674279"   "5683402"   "5716397"   "5824066"   "5860992"   "5972030"   "6102945"   "6143024"   "6159240"   "6165183"   "6174332"   "6183512"   "6217610"   "6231602"   "6283993"   "6319280"   "6368348"   "6406492"   "6565603"   "6602289"   "6695866").PN. OR ("6955689").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/15 14:39
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## EAST Search History (Prior Art)

S8	114	("20020077701"   "20020082698"   "20020123750"   "20030187445"   "20030195514"   "20040097980"   "3867728"   "4013078"   "4059115"   "4545374"   "4741330"   "4772287"   "4852568"   "4873976"   "4890612"   "4904260"   "4932969"   "5015255"   "5021059"   "5061274"   "5108438"   "5122154"   "5171278"   "5195541"   "5204106"   "5258000"   "5258043"   "5269783"   "5313962"   "5320633"   "5342393"   "5356432"   "5366460"   "5368602"   "5376120"   "5390683"   "5397331"   "5439464"   "5500000"   "5507754"   "5531759"   "5534028"   "5545178"   "5549617"   "5549679"   "5556429"   "5562689"   "5562736"   "5569242"   "5571189"   "5599279"   "5634944"   "5645597"   "5649945"   "5662681"   "5681310"   "5702454"   "5716416"   "5733337"   "5755797"   "5766246"   "5782844"   "5782860"   "5785705"   "5788625"   "5800549"   "5824093"   "5827298"   "5849331"   "5879366"   "5888220"   "5904703"   "5916225"   "5922028"   "5928284"   "5935147"   "5954767"   "5964807"   "5972022"   "5976174"   "5976186"   "5980504"   "6007570"   "6019792"   "6053909"   "6066776"   "6073051"   "6095149"   "6099514"   "6126682"   "6140452"   "6171318"   "6179874"   "6183518"   "6187048"   "6206921"   "6224630"   "6245107"   "6248106"   "6280453"   "6340369"   "6344058"   "6352557"   "6371990"   "6402750"   "6425919"   "6425924"   "6428576"   "6447531"   "6508828"   "6530933"   "6689125").PN. OR ("7004970").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/15 14:39
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## EAST Search History (Prior Art)

S9	338	( "1388547"   "1442051"   "1630239"   "20010049527"   "20020016583"   "20020016604"   "20020026244"   "20020032444"   "20020032447"   "20020055745"   "20020068974"   "20020068975"   "20020077632"   "20020077700"   "20020082598"   "20020082699"   "20020087163"   "20020095154"   "20020099384"   "20020107573"   "20020147485"   "20020147496"   "20020147497"   "20020151979"   "20020156531"   "20020165542"   "20020165612"   "20020173796"   "20020173851"   "20020188292"   "20020188299"   "20030023311"   "20030033017"   "20030083668"   "20030083688"   "20030158556"   "20030158557"   "20030191474"   "20030195518"   "20030195628"   "20030195630"   "20030204189"   "20030220649"   "20040010317"   "20040024465"   "20040030392"   "20040034429"   "20040044412"   "20040097924"   "20040215343"   "20040220577"   "20040267269"   "20050004593"   "20050010297"   "20050027358"   "20050038438"   "20050070908"   "20050113919"   "20050113928"   "20050113929"   "20050137601"   "20050137602"   "20050137604"   "20050137605"   "20050137607"   "20050137612"   "20050149034"   "20050149049"   "20050149191"   "20050165406"   "20050177117"   "20050229420"   "20050257660"   "20050261695"   "20060058800"   "20060079898"   "20060155297"   "20060206209"   "20060264957"   "20070010717"   "20070055260"   "20070066977"   "20070093847"   "20070112351"   "20070167951"   "20070168036"   "20070233099"   "20070233260"   "20070260270"   "20070265652"   "20080004707"   "20080065076"   "20080065080"   "20080065092").PN. OR ("20080065093"   "20080065094"   "20080071278"   "20080071282"   "20080097452"   "20080154275"   "20080188895"   "20080262502"   "20080262555"   "2336338"   "3367326"   "3454006"   "3554192"   "3788320"   "3875595"   "3892232"   "4046144"   "4135506"   "4175555"   "4265231"   "4309777"   "4349921"   "4518383"   "4541423"   "4545374"   "4573448"   "4609370"   "4636217"   "4650466"   "4657550"   "4756649"   "4844088"   "4858601"   "4862891"   "4904260"   "4966604"	US-PGPUB; ADJ USPAT; USOCR	ON	2009/09/15 14:40
4/27/2010 2:57:57 PM	C:\Documents and Settings\becclary\Documents\East Workspaces\10594158.wsp				Page 5

## EAST Search History (Prior Art)

S10	4076	623/17.11-17.16.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/09/15 14:40
S11	4	US-5634944-\$.DID. OR US-20020189622-\$. DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/04/15 16:19
S12	22	mcleod-alan.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/04/15 16:21
S13	230	annulus repair	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/04/15 16:24
S14	26	S13 and fold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/04/15 16:24
S15	32	("4329743"   "4411027"   "4790303"   "4919667"   "4955908"   "5067964"   "5108438"   "5549679"   "5571189"   "5609634"   "5681353"   "5725582"   "5735903"   "5888220"   "5980504"   "6007570"   "6066175"   "6073051"   "6093205"   "6095149"   "6224630"   "6245107"   "6264656"   "6306170"   "6371990"   "6425919"   "6592625"   "6827743").PN. OR ("7445634").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/04/15 16:27

## EAST Search History (Prior Art)

S16	169	("3867728"   "3875595"   "4280954"   "4309777"   "4349921"   "4458678"   "4512038"   "4714469"   "4759766"   "4759769"   "4772287"   "4863476"   "4863477"   "4880429"   "4904260"   "4911718"   "4932969"   "4932975"   "4946378"   "4955908"   "5002576"   "5007934"   "5047055"   "5108438"   "5123926"   "5171280"   "5171281"   "5192326"   "5246458"   "5258043"   "5306308"   "5306309"   "5383884"   "5401269"   "5458643"   "5507816"   "5522898"   "5534028"   "5534030"   "5540688"   "5545229"   "5549679"   "5562736"   "5562738"   "5645597"   "5674296"   "5676702"   "5683464"   "5683465"   "5702450"   "5702454"   "5705780"   "5716416"   "5755796").PN. OR ("6093205").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/04/15 16:30
S18	108039	annulus	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/04/15 16:34
S19	157	S18 and (uniform with fold\$2)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/04/15 16:34
S20	169	("3867728"   "3875595"   "4280954"   "4309777"   "4349921"   "4458678"   "4512038"   "4714469"   "4759766"   "4759769"   "4772287"   "4863476"   "4863477"   "4880429"   "4904260"   "4911718"   "4932969"   "4932975"   "4946378"   "4955908"   "5002576"   "5007934"   "5047055"   "5108438"   "5123926"   "5171280"   "5171281"   "5192326"   "5246458"   "5258043"   "5306308"   "5306309"   "5383884"   "5401269"   "5458643"   "5507816"   "5522898"   "5534028"   "5534030"   "5540688"   "5545229"   "5549679"   "5562736"   "5562738"   "5645597"   "5674296"   "5676702"   "5683464"   "5683465"   "5702450"   "5702454"   "5705780"   "5716416"   "5755796").PN. OR ("6093205").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/04/26 14:32
S21	76	S20 and annulus	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/04/26 14:34
S23	3	"20040039392"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/04/26 14:41

## EAST Search History (Interference)

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